Title (en)

FLUID FLOW SENSOR CABLE ASSEMBLY, SYSTEM, AND METHOD FOR MEASURING MULTIPHASE FLOW IN BORE WELLS

Title (de)

FLÜSSIGKEITSSTRÖMUNGSSENSORKABELANORDNUNG, SYSTEM UND VERFAHREN ZUR MESSUNG DER MEHRPHASENSTRÖMUNG IN BOHRLÖCHERN

Title (fr)

ENSEMBLE CÂBLE DE CAPTEUR D'ÉCOULEMENT FLUIDIQUE, SYSTÈME, ET PROCÉDÉ DE MESURE D'ÉCOULEMENT DE PHASES MULTIPLES DANS DES PUITS DE FORAGE

Publication

EP 3371556 A1 20180912 (EN)

Application

EP 16805924 A 20161104

Priority

- US 201514932732 A 20151104
- US 2016060425 W 20161104

Abstract (en)

[origin: US2017123103A1] A fluid sensor cable assembly and method uses one or more conductive bodies extending along an elongated core body for conducting a heating current to heat the cable assembly. The one or more conductive bodies also are configured to conduct an interrogation signal and to conduct reflections of the interrogation signal. One or more optical fibers extend along the length of the core body and include temperature sensitive elements at different locations along the length of the core body. The temperature sensitive elements measure heat flux out of the cable assembly at the different locations subsequent to heating the cable assembly and communicate the heat flux to a computer acquisition system.

IPC 8 full level

G01F 1/688 (2006.01); **E21B 21/08** (2006.01); **E21B 47/10** (2012.01); **G01F 1/74** (2006.01); **G01N 9/04** (2006.01); **G01N 27/02** (2006.01)

CPC (source: EP US)

E21B 47/103 (2020.05 - EP US); **G01F 1/6884** (2013.01 - EP); **G01F 1/74** (2013.01 - EP US); **G01N 9/04** (2013.01 - EP US); **G01N 27/02** (2013.01 - US); **G01V 9/005** (2013.01 - US); E21B 47/06 (2013.01 - US); G01F 1/6884 (2013.01 - US); G01N 25/00 (2013.01 - US)

Citation (search report)

See references of WO 2017079493A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 10120102 B2 20181106; **US 2017123103 A1 20170504**; AU 2016349452 A1 20180524; CA 3003469 A1 20170511; CO 2018005779 A2 20180620; EP 3371556 A1 20180912; WO 2017079493 A1 20170511

DOCDB simple family (application)

US 201514932732 A 20151104; AU 2016349452 A 20161104; CA 3003469 A 20161104; CO 2018005779 A 20180601; EP 16805924 A 20161104; US 2016060425 W 20161104